

1 **Amendment to the Claims**

2 **In the Claims:**

3 Please amend Claims 1, 3, 5, 7, 9 – 16, 18 – 23, 36, 37, 39, 40, 46, 47, 49, 52 – 54, 58, 59,
4 and 61, and add new Claim 62, as shown below.

5 Please cancel Claim 60 (Claims 24-35 having been previously cancelled).

6 1. (Currently Amended) A method of migrating at least one client to a selected version of a
7 server-hosted application on a network, where ~~multiple versions~~ at least two different versions of the
8 server-hosted application are available on the network, ~~such that direction of a client to use a specific~~
9 ~~version may be transparent to a client~~, comprising the steps of:

10 (a) installing the ~~multiple versions~~ at least two different versions of the
11 server-hosted application on the network, wherein the at least two different versions of the server-
12 hosted application are not simply copies of a single release of the server-hosted application, but
13 wherein each different version of the at least two different versions of the server-hosted application
14 corresponds to a different release of the server-hosted application, each different release
15 incorporating at least one modification relative to any other release of the server-hosted application;

16 (b) creating a register identifying clients having access to the server-hosted
17 application and indicating in the register a version which of the at least two different versions of the
18 server-hosted application ~~that~~ is associated with each client having access to the server-hosted
19 application;

20 (c) changing an association in the register of at least one client selected from those
21 clients identified in the register to a different version of the at least two different versions of the
22 server-hosted application; and

23 (d) directing each client attempting to access the server-hosted application to the
24 version corresponding to one of the at least two different versions of the server-hosted application
25 with which the client is associated in the register, ~~without requiring that any client be aware of the~~
26 ~~migration to the different version.~~

27 2. (Original) The method of Claim 1, wherein the register comprises meta information for
28 each client.
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1 3. (Currently Amended) The method of Claim 2, wherein the meta information for each
2 client includes a status of the client and a version identifier that indicates ~~the version~~ which of the at
3 least two different versions of the server-hosted application is associated with the client.

4 4. (Original) The method of Claim 3, wherein the meta information further comprises a
5 location from where server-hosted application data of a client can be retrieved.

6 5. (Currently Amended) The method of Claim 1, further comprising the step of grouping
7 together version specific server-hosted application data into different data structures, such that at least
8 one data structure exists for each ~~version of the hosted application~~ of the at least two different
9 versions of the server-hosted application, and each at least one data structure includes version specific
10 server-hosted application data unique to only one ~~version of the hosted application~~ of the at least two
11 different versions of the server-hosted application.

12 6. (Original) The method of Claim 1, further comprising the step of grouping together non
13 version specific server-hosted application data into a single data structure.

14 7. (Currently Amended) The method of Claim 1, further comprising the step of grouping
15 together client specific server-hosted application data into different data structures based on the
16 version of the server-hosted application that is associated with the client specific server-hosted
17 application data, so that a different client data structure exists for each ~~version of the server-hosted~~
18 application of the at least two different versions of the server-hosted application.

19 8. (Original) The method of Claim 1, wherein the register comprises a separate data
20 structure.

21 9. (Currently Amended) The method of Claim 1, wherein the step of directing each client
22 attempting to access the server-hosted application to the ~~version of the~~ corresponding one of the at
23 least two different versions of the server-hosted application associated with the client comprises the
24 step of examining a request from each client for access to the server-hosted application to determine
25 if the request contains a reference to ~~the version~~ the one of the at least two different versions of the
26 server-hosted application with which the client making the request is associated.

27 10. (Currently Amended) The method of Claim 9, wherein when a request from a client does
28 not include a reference to ~~the version of the server-hosted application to which~~ of the at least two
29 different versions of the server-hosted application the client should be directed, further comprising
30 the step of incorporating a reference to the ~~version of the server-hosted application~~ one of the at least

1 two different versions of the server-hosted application to which the client should be directed in a
2 cookie returned to the client from the server, such that when the client makes a future request, the
3 register does not need to be consulted to determine ~~the version of the server-hosted application to~~
4 ~~which~~ to which of the at least two different versions of the server-hosted application the client should
5 be directed.

6 11. (Currently Amended) The method of Claim 1, further comprising the step of examining a
7 request from a client for access to the server-hosted application to determine if the request contains a
8 reference ~~to the version of the server-hosted application~~ to which of the at least two different versions
9 of the server-hosted application the client should be directed, before consulting the register to
10 determine ~~the version of the server-hosted application to~~ of the at least two different versions
11 of the server-hosted application the client is to be directed.

12 12. (Currently Amended) The method of Claim 11, wherein when a request from a client
13 does not include a reference ~~to the version of the server-hosted application~~ to which of the at least
14 two different versions of the server-hosted application the client should be directed, further
15 comprising the step of incorporating a reference to the ~~version of the server-hosted application~~ one of
16 the at least two different versions of the server-hosted application to which the client should be
17 directed in a cookie returned to the client from the server, such that when the client makes a future
18 request, the register does not need to be consulted to determine to which ~~version of the server-hosted~~
19 ~~application~~ of the at least two different versions of the server-hosted application the client should be
20 directed.

21 13. (Currently Amended) The method of Claim 1, wherein when a client attempts to access
22 the server-hosted application and is not identified in the register, further comprising the steps of
23 defining one of the at least two different versions of the server-hosted application as a default version
24 of the server-hosted application, and associating the client with ~~[[a]]~~ the default version of the
25 server-hosted application; and, adding information identifying the client as being associated with the
26 default version of the server-hosted application, to the register.

27 14. (Currently Amended) The method of Claim 13, further comprising the step of
28 incorporating a reference to the default version of the server-hosted application in a cookie returned
29 to the client from the server, such that when that client makes a future request, the register does not
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1 need to be consulted to determine to which ~~version of the server-hosted application~~ of the at least two
2 different versions of the server-hosted application the client should be directed.

3 15. (Currently Amended) The method of Claim 1, wherein when a client attempts to access
4 the server-hosted application, and the request from the client includes a reference to the ~~version of the~~
5 ~~server-hosted application~~ one of the at least two different versions of the server-hosted application to
6 which the unique client should be directed, but that reference fails to define a ~~version of the~~
7 ~~server-hosted application~~ the one of the at least two different versions of the server-hosted application
8 with which data of the client are associated, further comprising the step of consulting the register to
9 determine to which ~~version of the server-hosted application~~ of the at least two different versions of
10 the server-hosted application the client should be directed.

11 16. (Currently Amended) The method of Claim 15, further comprising the steps of changing the
12 ~~reference to the version of the server-hosted application~~ one of the at least two different versions of the
13 server-hosted application contained in the request cookie to correspond with the ~~version of the~~
14 ~~server-hosted application~~ one of the at least two different versions of the server-hosted application
15 identified by the register, and returning the cookie that is thus corrected to the client, so that when the
16 client makes a future request, the future request will properly reference the ~~version of the server-hosted~~
17 ~~application~~ one of the at least two different versions of the server-hosted application with which the
18 client is associated.

19 17. (Original) A machine-readable medium having machine instructions for performing the
20 steps of Claim 1.

21 18. (Currently Amended) A system for migrating at least a portion of a plurality of clients to a
22 ~~selected~~ specific unique version of a server-hosted application on a network to which the plurality of
23 clients is coupled, where ~~multiple versions~~ at least two unique versions of the server-hosted application
24 are available on the network, ~~such that direction of a client to use a specific version of the server-hosted~~
25 ~~application may be transparent to a user~~, comprising:

26 (a) a computing device for each client coupled to the network; and

27 (b) a server having a processor and a memory in communication with the processor,
28 said memory storing machine instructions that when executed by the processor, cause the processor to:

29 (i) install the ~~multiple versions~~ at least two unique versions of the
30 server-hosted application for access over the network, wherein the at least two unique versions are

1 not simply identical copies of a single release of the server-hosted application, but each of the at least
2 two unique versions of the server-hosted application corresponds to a different release of the server-
3 hosted application, each different release including at least one modification relative to any other
4 release of the server-hosted application;

5 (ii) create a register identifying the plurality of clients having access to the
6 server-hosted application and including an association of ~~a version~~ a specific one of the at least two
7 unique versions of the server-hosted application with each client having access to the server-hosted
8 application;

9 (iii) change an association in the register of a first group of clients selected
10 from the plurality of clients, to a different ~~version~~ one of the at least two unique versions of the
11 server-hosted application; and

12 (iv) direct each client attempting to access the server-hosted application to
13 the ~~version~~ specific one of the at least two unique versions of the server-hosted application with
14 which the client is associated in the register, ~~without requiring that a user of any client be aware of~~
15 ~~the migration to the different version.~~

16 19. (Currently Amended) The system of Claim 18, wherein the machine instructions, when
17 executed by the processor, further cause the processor to direct each client attempting to access the
18 server-hosted application to the ~~version~~ specific one of the at least two unique versions of the
19 server-hosted application with which the client is associated, by consulting the register to determine
20 the ~~version~~ specific one of the at least two unique versions of the server-hosted application to which
21 the client should be directed.

22 20. (Currently Amended) The system of Claim 18, wherein the machine instructions, when
23 executed by the processor, further cause the processor to direct each client attempting to access the
24 server-hosted application to the ~~version~~ specific one of the at least two unique versions of the
25 server-hosted application with which the client is associated, by examining a request from each client
26 to the server to determine if the request contains a reference to the ~~version~~ specific one of the at least
27 two unique versions of the server-hosted application to which the client should be directed.

28 21. (Currently Amended) The system of Claim 20, wherein when the request does not
29 include a reference to the ~~version~~ specific one of the at least two unique versions of the server-hosted
30 application to which the client should be directed, the machine instructions cause the processor to

1 identify the ~~version~~ specific one of the at least two unique versions of the server-hosted application to
2 which the client should be directed, by consulting the register.

3 22. (Currently Amended) The system of Claim 21, wherein when the request does not
4 include a reference to the ~~version~~ specific one of the at least two unique versions of the server-hosted
5 application to which the client should be directed, the machine instructions further cause the
6 processor to incorporate a reference to the ~~version~~ specific one of the at least two unique versions of
7 the server-hosted application to which the ~~unique~~-client should be directed in a cookie returned to the
8 client from the server, such that when the client makes a future request, the register does not need to
9 be consulted to determine to which ~~version~~ specific one of the at least two unique versions of the
10 server-hosted application the client should be directed.

11 23. (Currently Amended) The system of Claim 18, wherein when a client attempts to access
12 the server-hosted application, and the client is not identified in the register, the machine instructions
13 further cause the processor to define one of the at least two unique versions of the server-hosted
14 application as a default version of the server-hosted application, and to associate the client with [[a]]
15 the default version of the server-hosted application, and add the client in association with the default
16 version of the server-hosted application, to the register.

17 24. – 35. (Previously Cancelled)

18 36. (Currently Amended) A method of enabling a provider of a server-hosted application
19 accessible via a network to migrate selected clients from a first version of said server-hosted
20 application to a second version of said server-hosted application, such that at least one of the first
21 version of the server-hosted application and the second version of the server-hosted application
22 remains accessible to at least some clients of the network during the migration, comprising the steps
23 of:

24 (a) creating a register identifying each client having access to the server-hosted
25 application, and associating each client having access to the server-hosted application with the first
26 version of the server-hosted application, wherein the first version of the server-hosted application is
27 already installed on the network, and wherein the first version of the server-hosted application and
28 the second version of the server-hosted application are not simply copies of a specific release of the
29 server-hosted application, but rather the first version of the server-hosted application and the second
30 version of the server-hosted application are different releases of the server-hosted application, each

1 different release of these server-hosted application including at least one modification relative to any
2 other release of the server-hosted application;

3 (b) making the second version of the server-hosted application available on the
4 network;

5 (c) selecting a first group of clients from those clients identified in the register to
6 be migrated to the second version of the server-hosted application;

7 (d) changing the register so that the register indicates each client included in the
8 first group of clients is associated with and allowed to access the second version of the server-hosted
9 application, but not the first version of the server-hosted application;

10 (e) each time that a client attempts to access the server-hosted application,
11 automatically identifying ~~the version~~ which one of the first version of the server-hosted application
12 and the second version of the server-hosted application that said client is allowed to access; and

13 (f) automatically directing said client to the ~~version~~ one of the first version of the
14 server-hosted application and the second version of the server-hosted application that the client is
15 allowed to access.

16 37. (Currently Amended) The method of Claim 36, wherein the register comprises meta
17 information for each client, said meta information including at least a status of each client and a
18 version identifier that identifies ~~the version~~ which of the first version of the server-hosted application
19 and the second version of the server-hosted application that the client is allowed to access.

20 38. (Original) The method of Claim 37, wherein the status comprises at least one of an active
21 state and a being migrated state.

22 39. (Currently Amended) The method of Claim 38, wherein when data of any of the first
23 group of clients must be reformatted to be compatible with the second version of the server-hosted
24 application, for each client in the first group of clients whose data requires reformatting, further
25 comprising the steps of:

26 (a) modifying the register to identify the status of the client as in the being
27 migrated state;

28 (b) reformatting the data associated ~~[[of]]~~ with the client to be compatible with the
29 second version of the server-hosted application; and
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1 (c) when the reformatting is completed, modifying the register to identify the
2 status of the client as being in the active state.

3 40. (Currently Amended) The method of Claim 39, wherein if an error occurs in
4 reformatting the data associated with the client[[;]], further comprising the steps of:

5 (a) modifying the register to identify the status of the client as in the being
6 migrated state;

7 (b) reformatting the data associated of the client to be compatible with the first
8 version of the server-hosted application; and

9 (c) when the reformatting is completed:

10 (i) modifying the register to identify the status of the client as in the active
11 state; and

12 (ii) changing the register so that the register indicates the client is
13 associated with and allowed to access the first version of the server-hosted application, but not the
14 second version of the server-hosted application.

15 41. (Original) The method of Claim 38, further comprising the step of determining the status
16 of each client attempting to access the server-hosted application, and if the status of the client is
17 identified as being migrated, preventing the client from accessing the server-hosted application, until
18 the status of the client is changed to the active state.

19 42. (Original) The method of Claim 38, further comprising the step of determining the status
20 of each client attempting to access the server-hosted application, and if the status of the client is
21 identified as being migrated, allowing the client only limited access to the server-hosted application,
22 until the status of the client is changed to the active state.

23 43. (Original) The method of Claim 38, further comprising the step of determining the status
24 of each client attempting to access the server-hosted application, and if the status of the client is
25 identified as being migrated, allowing the client only limited access to the client's data stored by the
26 server-hosted application, until the status of the client is changed to the active state.

27 44. (Original) The method of Claim 36, further comprising the step of making the first
28 version of the server-hosted application unavailable to the network, if each client identified in the
29 register as having access to the server-hosted application, is associated with the second version of the
30 server-hosted application.

1 45. (Original) The method of Claim 36, wherein the step of automatically identifying the
2 version of the server-hosted application that said client is allowed to access comprises the step of
3 consulting the register to determine the version of the server-hosted application that said client is
4 allowed to access.

5 46. (Currently Amended) The method of Claim 36, wherein the step of automatically
6 identifying the version of the server-hosted application that said client is allowed to access comprises
7 the step of examining a request from said client to the server, to determine if the request contains a
8 reference to ~~the version~~ which one of the first version of the server-hosted application and the second
9 version of the server-hosted application that said client is allowed to access.

10 47. (Currently Amended) The method of Claim 46, wherein if the request does not include
11 the reference to ~~the version~~ which of the first version of the server-hosted application and the second
12 version of the server-hosted application that said client is allowed to access, the step of automatically
13 identifying ~~the version~~ which of the first version of the server-hosted application and the second
14 version of the server-hosted application that said client is allowed to access comprises the step of
15 consulting the register to determine ~~the version~~ which of the first version of the server-hosted
16 application and the second version of the server-hosted application that said client is allowed to
17 access.

18 48. (Original) The method of Claim 46, wherein if the request does not include any reference
19 to the version of the server-hosted application that said client is allowed to access, further comprising
20 the step of incorporating a reference to the version of the server-hosted application that said client is
21 allowed to access in a cookie returned to said client from the server, such that when said client makes
22 a future request, the register does not need to be consulted to determine the version of the
23 server-hosted application.

24 49. (Currently Amended) The method of Claim 36, wherein when said client is not identified
25 in the register, further comprising the steps of defining one of the first version of the server-hosted
26 application and the second version of the server-hosted application as a default version of the server-
27 hosted application, associating said client with [[a]] the default version of the server-hosted
28 application, and updating the register to identify said client and to indicate that said client is allowed
29 to access the default version of the server- hosted application.

1 50. (Original) The method of Claim 49, wherein said default version is the first version of
2 the server-hosted application.

3 51. (Original) The method of Claim 49, wherein said default version is the second version of
4 the server-hosted application.

5 52. (Currently Amended) The method of Claim 49, further comprising the step of
6 incorporating a reference to the default version of the server-hosted application that said client is
7 allowed to access in a cookie returned to said client from the server, such that when said client makes
8 a future request, the register does not need to be consulted to determine ~~the version~~ which of the first
9 version of the server-hosted application and the second version of the server-hosted application that
10 said client is allowed to access.

11 53. (Currently Amended) The method of Claim 36, wherein when a request from said client
12 to access the server-hosted application includes a reference to the ~~version~~ one of the first version of
13 the server-hosted application and the second version of the server-hosted application that said client
14 is allowed to access, but the reference fails to indicate a ~~version~~ the one of the first version of the
15 server-hosted application and the second version of the server-hosted application with which data of
16 said client is are associated, the step of automatically identifying ~~the version~~ the one of the first
17 version of the server-hosted application and the second version of the server-hosted application
18 comprises the step of consulting the register to determine ~~the version~~ which of the first version of the
19 server-hosted application and the second version of the server-hosted application that said client is
20 allowed to access.

21 54. (Currently Amended) The method of Claim 53, further comprising the steps of:

22 (a) changing the reference in the request to correspond to the ~~version~~ one of the
23 first version of the server-hosted application and the second version of the server-hosted application
24 that said client is allowed to access that is defined in the register; and

25 (b) returning the changed reference to said client, such that when said client makes
26 a future request, said future request properly references ~~the version~~ the one of the first version of the
27 server-hosted application and the second version of the server-hosted application that said client is
28 allowed to access.

29 55. (Original) The method of Claim 36, further comprising the steps of selecting a second
30 group of clients from those clients identified in the register that are allowed to access the first version

1 of the server-hosted application, and changing the register so that the register indicates each client
2 included in the second group of clients is associated with and allowed to access the second version of
3 the server-hosted application, but not the first version of the server-hosted application.

4 56. (Original) The method of Claim 55, wherein when all clients identified in the register are
5 associated with and only allowed access to the second version of the server-hosted application,
6 further comprising the step of making the first version of the server-hosted application unavailable to
7 the network.

8 57. (Original) A machine-readable medium having machine instructions for performing the
9 steps of Claim 36.

10 58. (Currently Amended) A system for enabling a provider of a server-hosted application to
11 migrate at least some clients from a first version of the server-hosted application to a second version
12 of the server-hosted application, such that at least one version of the server-hosted application
13 remains accessible to at least some of the clients during the migration, comprising:

14 (a) a plurality of computing devices, each computing device comprising a different
15 client; and

16 (b) a server having a processor and a memory in communication with the
17 processor, said memory storing machine instructions that when executed by the processor, cause the
18 processor to:

19 (i) maintain a register that identifies each client having access to the
20 server-hosted application, for each client having access to the server-hosted application, associates
21 the client with the first version of the server-hosted application, wherein the first version of the
22 server-hosted application and the second version of the server-hosted application are not simply
23 copies of a single release of the server-hosted application, but instead, the first version and the second
24 version of the server-hosted application correspond to different releases of the server-hosted
25 application, each different release of the server-hosted application including at least one modification
26 relative to any other release of the server-hosted application;

27 (ii) enable the first version of the server-hosted application and the second
28 version of the server-hosted application to be made available to the clients at the same time;

29 (iii) enable a first group of clients to be selected from those clients
30 identified in the register, for migration to the second version of the server-hosted application;

1 (iv) change the register so that the register indicates that each client
2 included in the first group of clients is associated with and allowed to access the second version of
3 the server-hosted application, but not the first version of the server-hosted application;

4 (v) each time that any client attempts to access the server-hosted
5 application, automatically identify ~~the version~~ which of the first version of the server-hosted
6 application and the second version of the server-hosted application that said client is allowed to
7 access; and

8 (vi) direct said client to the ~~version~~ one of the first version of the server-
9 hosted application and the second version of the server-hosted application that said client is allowed
10 to access.

11 59. (Currently Amended) A method of migrating at least one client to a selected version of a
12 server-hosted application on a network, ~~where multiple versions of the server-hosted application are~~
13 ~~available on the network, such that direction of a client to use a specific version may be transparent to~~
14 ~~a client, the multiple versions including at least two different releases of same the server-hosted~~
15 ~~application~~, comprising the steps of:

16 (a) installing ~~the multiple versions~~ a first version of the server-hosted application
17 and a second version of the server-hosted application on the network, the first version of the server-
18 hosted application and the second version of the server-hosted application corresponding to different
19 releases of the server-hosted application, each different release of the server-hosted application
20 incorporating at least one change relative to any other release of the server-hosted application,
21 wherein each release of the server-hosted application is configured to execute processing remote from
22 the client, and to transmit a result to the client, wherein the server-hosted application could have been
23 executed by the client, if the server-hosted application resided on the client instead of on the network
24 hosting the server-hosted application, even if the client did not have access to the network;

25 (b) creating a register identifying clients having access to the server-hosted
26 application and indicating in the register ~~a version~~ which of the first version of the server-hosted
27 application and the second version of the server-hosted application ~~that~~ is associated with each client
28 having access to the server-hosted application;

1 (c) changing an association in the register of at least one client selected from those
2 clients identified in the register to a different ~~version~~ one of the first version of the server-hosted
3 application and the second version of the server-hosted application; and

4 (d) directing each client attempting to access the server-hosted application to the
5 ~~version~~ one of the first version of the server-hosted application and the second version of the
6 server-hosted application with which the client is associated in the register, ~~without requiring that any~~
7 ~~client be aware of the migration to the different version.~~

8 60. (Currently Canceled)

9 61. (Currently Amended) A method of enabling a provider of a server-hosted application to
10 ~~migrate selected clients from~~ replace a first version of said server-hosted application ~~[[to]]~~ with a
11 second version of said server-hosted application, ~~such that at least one version of the server-hosted~~
12 ~~application remains accessible to at least some clients during the migration, the first version and the~~
13 ~~second version corresponding to two different releases of same the server-hosted application,~~
14 comprising the steps of:

15 (a) creating a register identifying each client having access to the server-hosted
16 application, and associating each client having access to the server-hosted application with the first
17 version of the server-hosted application;

18 (b) making the second version of the server-hosted application available on the
19 network, wherein the first version of the server-hosted application and the second version of the
20 server-hosted application correspond to different releases of the server-hosted application, each
21 different release of the server-hosted application incorporating at least one change relative to any
22 other release of the server-hosted application;

23 (c) selecting a first group of clients from those clients identified in the register to
24 be migrated to the second version of the server-hosted application;

25 (d) changing the register so that the register indicates each client included in the
26 first group of clients is associated with and allowed to access the second version of the server-hosted
27 application, but not the first version of the server-hosted application;

28 (e) each time that a client attempts to access the server-hosted application,
29 automatically identifying the version of the server-hosted application that said client is allowed to
30 access; ~~[[and]]~~

1 (f) automatically directing said client to the version of the server-hosted
2 application that the client is allowed to access; and

3 (g) once all of the clients of the server-hosted application have been migrated to
4 the second version of the server-hosted application, removing the first version of the server-hosted
5 application from the network, thereby replacing the first version of the server-hosted application with
6 the second version of the server-hosted application.

7 62. (New) A method of migrating at least one client to a selected version of a server-hosted
8 application on a network, where multiple versions of the server-hosted application are available on
9 the network, such that direction of a client to use a specific version may be transparent to the client,
10 comprising the steps of:

11 (a) installing the multiple versions of the server-hosted application on the network;

12 (b) creating a register identifying clients having access to the server-hosted
13 application and indicating in the register a version of the server-hosted application that is associated
14 with each client having access to the server-hosted application;

15 (c) changing an association in the register of at least one client selected from those
16 clients identified in the register to a different version of the server-hosted application; and

17 (d) directing each client attempting to access the server-hosted application to the
18 version of the server-hosted application with which the client is associated in the register, without
19 requiring that any client be informed of the migration to the different version.
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